

SUPPLEMENTAL TABLE 1

Itemized cost of conducting school malaria surveys using alternative diagnostic methods Kenya, 2008–2010*

Item type	Unit	Unit cost in US dollars		Unit cost in US dollars		
		RDT Paracheck	Microscopy	Microscopy-corrected RDTs†	PCR-corrected RDTs†	
Equipment‡	Dustbin	0.04	0.04	0.04	0.04	
	Timer	0.23		0.23	0.23	
	Cooler box	0.54		0.54	0.54	
	Wooden drying rack		0.04	0.04		
	Staining jars		0.11	0.11		
	Measuring cylinder		0.04	0.04		
	Scissors				0.04	
	Stapler				0.04	
	Freezer				0.95	
	Internet dongle	0.18	0.18	0.18	0.18	
	Netbook computers	6.31	6.31	6.31	6.31	
	Salaries	Senior technician	67.02	67.02	67.02	67.02
		Technician	53.62	53.62	53.62	53.62
		Technician	53.62	53.62	53.62	53.62
Training	Ministry of Education officer	13.40	13.40	13.40	13.40	
	One-day training	5.19	5.19	5.19	5.19	
Consumables	Stationery	3.69	3.69	3.69	3.69	
	Paracheck RDT	156.30		156.30	156.30	
	Filter paper				15.06	
	Blood lancet	2.95	2.95	2.95	2.95	
	Sharps container	4.02	4.02	4.02	4.02	
	Blood slides		5.31	5.31		
	Slide boxes		5.63	5.63		
	Buffer tablets		3.08	3.08		
	Distilled water		0.40	0.40		
	Giemsa stain		1.46	1.46		
	Kitchen rolls		1.14	1.14		
	Disposable gloves	3.35	3.35	3.35	3.35	
	Cotton wool	0.25	0.25	0.25	0.25	
	Methylated spirit	0.40	0.40	0.40	0.40	
	Bin bags	0.27	0.27	0.27	0.27	
	Paper towels	1.14	1.14	1.14	1.14	
	Resealable bags				8.21	
	Manilla paper				0.40	
	Staples				0.30	
	Slide reading	Questionnaires	13.40	13.40	13.40	13.40
		Immersion oil		6.03	0.13	
		Lens tissue		2.95	0.06	
		Tally counters		0.04	0.04	
		Double slide reading		442.36	33.62	
		Third reading§		80.43	6.05	
		Printing costs		0.67	0.07	
Standard PCR					341.176	
Transport and communication	Car hire and driver	134.05	134.05	134.05	134.05	
	Fuel and maintenance	40.21	40.21	40.21	40.21	
	Airtime	5.36	5.36	5.36	5.36	
	Supervision	35.25	35.25	35.25	35.25	
Sub-total		600.81	993.41	691.59	966.98	
Contingency (10%)		60.08	99.34	69.16	96.70	
Total		660.89	1,092.75	723.77	1,063.68	

* RDT = rapid diagnostic test; PCR = polymerase chain reaction. The number of units and cost required for sampling 110 children in one school.

† Cost calculated assuming that all RDT-positive samples and equal number of RDT-negative samples would be examined at 7.6% RDT *Plasmodium* spp. prevalence.

‡ Capital costs assuming a 3% discount rate and that the items would be used in 200 schools.

§ Cost calculated assuming that 18% of the slides will have discordant readings.

SUPPLEMENTAL TABLE 2

Classification of district-level *Plasmodium* spp. infection prevalence by rapid diagnostic tests compared with microscopy-corrected rapid diagnostic test results, according to prevalence category in school malaria surveys in Kenya, 2008–2010*

<i>Plasmodium</i> spp. prevalence (%) category by microscopy-corrected RDT results	<i>Plasmodium</i> spp. prevalence (%) category by RDT results				Total
	0–0.9	1–4.9	5–39.9	> 40	
0–0.9	42 (95.5)	2 (4.6)	0	0	44
1–4.9	0	5 (50.0)	5 (50.0)	0	10
5–39.9	0	0	11 (84.6)	2 (15.4)	13
> 40	0	0	0	2 (100)	2

* RDT = rapid diagnostic test.

SUPPLEMENTAL TABLE 3

Classification of school-level *Plasmodium* infection prevalence by rapid diagnostic tests compared with microscopy-corrected rapid diagnostic test results, according to prevalence category in school malaria surveys in Kenya, 2008–2010*

<i>Plasmodium</i> spp. prevalence (%) category by microscopy-corrected RDT results	<i>Plasmodium</i> spp. prevalence (%) category by RDT results				Total
	0–0.9	1–4.9	5–39.9	> 40%	
0–0.9	269 (80.8)	38 (11.4)	18 (5.4)	8 (2.4)	333
1–4.9	3 (4.9)	32 (52.5)	23 (37.7)	3 (4.9)	61
5–39.9	0	0	62 (82.7)	13 (17.3)	75
> 40	0	0	0	11 (100)	11

* RDT = rapid diagnostic test.